



## SEQUENCE LISTING

<110> MYNARCIK, DENNIS C.

<120> PROTEIN BINDING DETERMINATION AND MANIPULATION

<130> 21438/1

<140> 10/620,491

<141> 2003-07-16

<150> 60/396,428

<151> 2002-07-17

<160> 4

<170> PatentIn Ver. 3.3

<210> 1

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1

Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu  
1 5 10 15

<210> 2

<211> 508

<212> PRT

<213> Homo sapiens

<400> 2

Met Asp His Leu Gly Ala Ser Leu Trp Pro Gln Val Gly Ser Leu Cys  
1 5 10 15

Leu Leu Leu Ala Gly Ala Ala Trp Ala Pro Pro Pro Asn Leu Pro Asp  
20 25 30

Pro Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu  
35 40 45

Glu Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp  
50 55 60

Glu Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser  
65 70 75 80

Tyr Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala  
85 90 95

Pro Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala  
100 105 110

Asp Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser  
 115 120 125  
 Gly Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu  
 130 135 140  
 Leu Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly  
 145 150 155 160  
 His Val Val Leu Arg Trp Leu Pro Pro Glu Thr Pro Met Thr Ser  
 165 170 175  
 His Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser  
 180 185 190  
 Val Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser  
 195 200 205  
 Asn Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met  
 210 215 220  
 Ala Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val  
 225 230 235 240  
 Ser Leu Leu Thr Pro Ser Asp Leu Asp Pro Leu Ile Leu Thr Leu Ser  
 245 250 255  
 Leu Ile Leu Val Val Ile Leu Val Leu Leu Thr Val Leu Ala Leu Leu  
 260 265 270  
 Ser His Arg Arg Ala Leu Lys Gln Lys Ile Trp Pro Gly Ile Pro Ser  
 275 280 285  
 Pro Glu Ser Glu Phe Glu Gly Leu Phe Thr Thr His Lys Gly Asn Phe  
 290 295 300  
 Gln Leu Trp Leu Tyr Gln Asn Asp Gly Cys Leu Trp Trp Ser Pro Cys  
 305 310 315 320  
 Thr Pro Phe Thr Glu Asp Pro Pro Ala Ser Leu Glu Val Leu Ser Glu  
 325 330 335  
 Arg Cys Trp Gly Thr Met Gln Ala Val Glu Pro Gly Thr Asp Asp Glu  
 340 345 350  
 Gly Pro Leu Leu Glu Pro Val Gly Ser Glu His Ala Gln Asp Thr Tyr  
 355 360 365  
 Leu Val Leu Asp Lys Trp Leu Leu Pro Arg Asn Pro Pro Ser Glu Asp  
 370 375 380  
 Leu Pro Gly Pro Gly Gly Ser Val Asp Ile Val Ala Met Asp Glu Gly  
 385 390 395 400  
 Ser Glu Ala Ser Ser Cys Ser Ser Ala Leu Ala Ser Lys Pro Ser Pro  
 405 410 415

Glu Gly Ala Ser Ala Ala Ser Phe Glu Tyr Thr Ile Leu Asp Pro Ser  
 420 425 430

Ser Gln Leu Leu Arg Pro Trp Thr Leu Cys Pro Glu Leu Pro Pro Thr  
 435 440 445

Pro Pro His Leu Lys Tyr Leu Tyr Leu Val Val Ser Asp Ser Gly Ile  
 450 455 460

Ser Thr Asp Tyr Ser Ser Gly Asp Ser Gln Gly Ala Gln Gly Gly Leu  
 465 470 475 480

Ser Asp Gly Pro Tyr Ser Asn Pro Tyr Glu Asn Ser Leu Ile Pro Ala  
 485 490 495

Ala Glu Pro Leu Pro Pro Ser Tyr Val Ala Cys Ser  
 500 505

<210> 3  
 <211> 226  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 construct

<400> 3  
 Ala Pro Pro Pro Asn Leu Pro Asp Pro Lys Phe Glu Ser Lys Ala Ala  
 1 5 10 15

Leu Leu Ala Ala Arg Gly Pro Glu Glu Leu Leu Cys Phe Thr Glu Arg  
 20 25 30

Leu Glu Asp Leu Val Cys Phe Trp Glu Glu Ala Ala Ser Ala Gly Val  
 35 40 45

Gly Pro Gly Gln Tyr Ser Phe Ser Tyr Gln Leu Glu Asp Glu Pro Trp  
 50 55 60

Lys Leu Cys Arg Leu His Gln Ala Pro Thr Ala Arg Gly Ala Val Arg  
 65 70 75 80

Phe Trp Cys Ser Leu Pro Thr Ala Asp Thr Ser Ser Phe Val Pro Leu  
 85 90 95

Glu Leu Arg Val Thr Ala Ala Ser Gly Ala Pro Arg Tyr His Arg Val  
 100 105 110

Ile His Ile Asn Glu Val Val Leu Leu Asp Ala Pro Val Gly Leu Val  
 115 120 125

Ala Arg Leu Ala Asp Glu Ser Gly His Val Val Leu Arg Trp Leu Pro  
 130 135 140

Pro Pro Glu Thr Pro Met Thr Ser His Ile Arg Tyr Glu Val Asp Val  
 145 150 155 160

Ser Ala Gly Gln Gly Ala Gly Ser Val Gln Arg Val Glu Ile Leu Glu  
 165 170 175

Gly Arg Thr Glu Cys Val Leu Ser Asn Leu Arg Gly Arg Thr Arg Tyr  
 180 185 190

Thr Phe Ala Val Arg Ala Arg Met Ala Glu Pro Ser Phe Gly Gly Phe  
 195 200 205

Trp Ser Glu Trp Ser Glu Pro Val Ser Leu Leu Thr Pro Ser Asp Leu  
 210 215 220

Asp Pro  
 225

<210> 4

<211> 226

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 construct

<400> 4

Ala Pro Pro Pro Asn Leu Pro Asp Pro Lys Phe Glu Ser Lys Ala Ala  
 1 5 10 15

Leu Leu Ala Ala Arg Gly Pro Glu Glu Leu Leu Cys Phe Thr Glu Arg  
 20 25 30

Leu Glu Asp Leu Val Cys Phe Trp Glu Glu Ala Ala Ser Ala Gly Val  
 35 40 45

Gly Pro Gly Gln Tyr Ser Phe Ser Tyr Gln Leu Glu Asp Glu Pro Trp  
 50 55 60

Lys Leu Cys Arg Leu His Gln Ala Pro Thr Ala Arg Gly Ala Val Arg  
 65 70 75 80

Phe Trp Cys Ser Leu Pro Thr Ala Asp Thr Ser Ser Phe Val Pro Leu  
 85 90 95

Glu Leu Arg Val Thr Ala Ala Ser Gly Ala Pro Arg Tyr His Arg Val  
 100 105 110

Ile His Ile Asn Glu Val Val Leu Leu Asp Ala Pro Val Gly Leu Val  
 115 120 125

Ala Arg Leu Ala Asp Glu Ser Gly His Val Val Leu Arg Trp Leu Pro  
 130 135 140

Pro Pro Glu Thr Pro Met Thr Ser His Ile Arg Tyr Glu Val Asp Val  
 145 150 155 160

Ser Ala Gly Gln Gly Ala Gly Ser Val Gln Arg Val Glu Ile Leu Glu  
165 170 175

Gly Arg Thr Glu Cys Val Leu Ser Asn Leu Arg Gly Arg Thr Arg Tyr  
180 185 190

Thr Phe Ala Val Arg Ala Arg Met Ala Glu Pro Ser Phe Gly Gly Phe  
195 200 205

Trp Ser Glu Trp Ser Glu Pro Val Ser Leu Leu Thr Pro Ser Asp Leu  
210 215 220

Asp Pro  
225